

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 27 AND BRINK ROAD IN MONTGOMERY COUNTY. MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

AN EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE INSTALLED AT THIS INTERSECTION. THE CONTROLLER WILL OPERATE AS A SIX-PHASE, SEMI-TRAFFIC-ACTUATED CONTROLLER WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 27 AND SIDE STREET SPLIT PHASING. AN ALTERNATE PEDESTRIAN PHASE ACROSS THE SOUTH LEG OF MD 27 AND A CONCURRENT PEDESTRIAN PHASE ACROSS THE EAST AND WEST LEGS OF BRINK ROAD.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 & 6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PED CLEAR	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEAR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY

EQUIPMENT LIST "B" CONTINUED

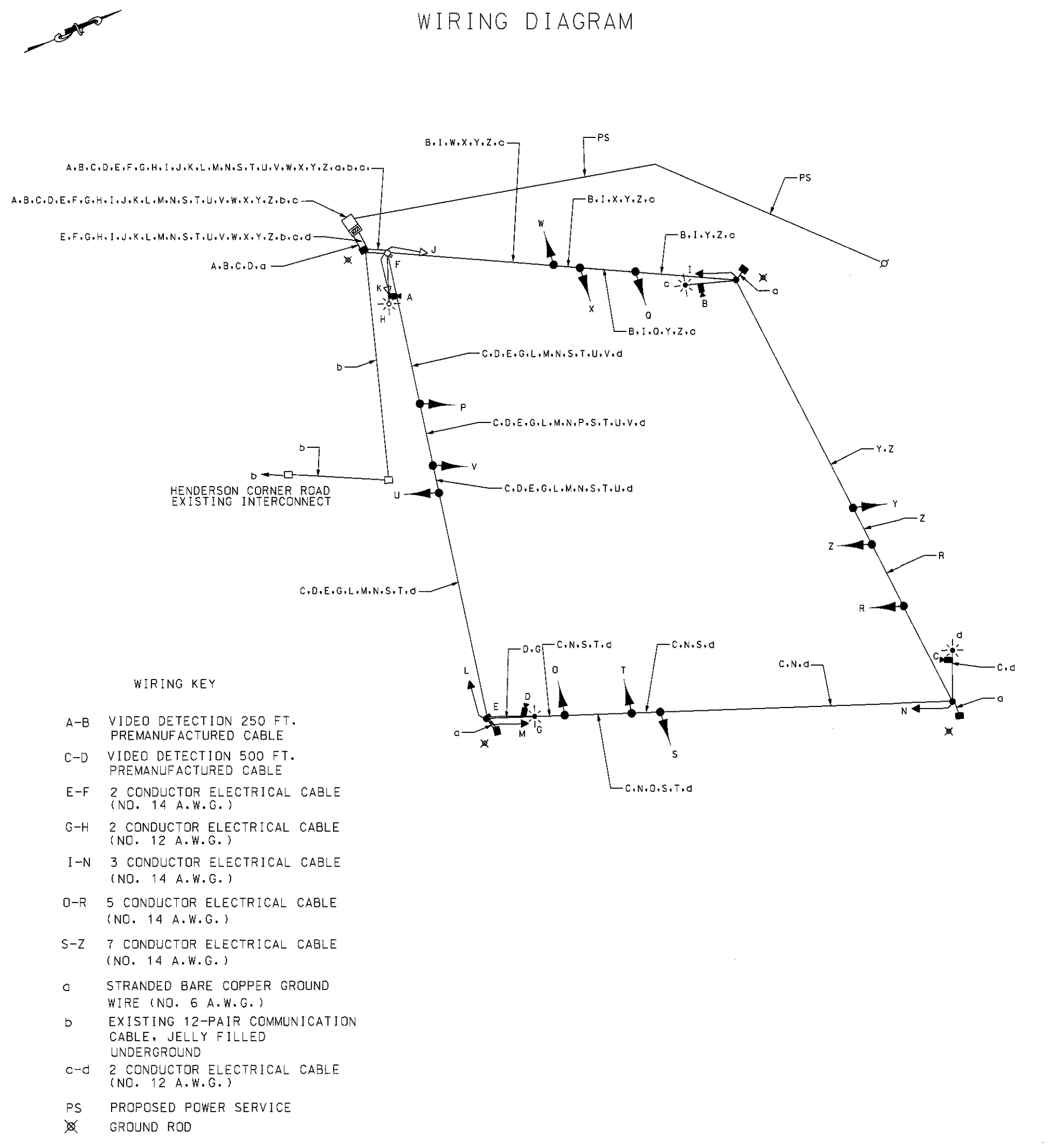
ITEM NO.	QUANTITY	DESCRIPTION
8014	3 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
8019	6 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8020	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL
8032	1 EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND SIGN
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8049	4 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8050	1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
8051	165 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8052	75 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8053	40 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	17 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	80 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8064	70 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8070	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO.4 AWG
8072	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	5 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8082	300 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 14 AWG
8083	1000 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR NO. 14 AWG
8084	90 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	1680 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8086	1055 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 12 AWG
8089	660 LF	FURNISH AND INSTALL 1/4 IN. STEEL SPAN WIRE
8090	660 LF	FURNISH AND INSTALL 3/8 IN. STEEL SPAN WIRE
8093	1 EA	FURNISH AND INSTALL CONTROLLER AND CABINET BASE MOUNT
---	2 EA	FURNISH AND INSTALL R9-2(4) SIGN (30" X 42") SPAN WIRE MOUNT
---	2 EA	FURNISH AND INSTALL R10-12 SIGN (36" X 42") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL D3-2 SIGN, DUAL FACED "BRINK ROAD 11500 >" (VAR. X 16") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL D3-2 SIGN DUAL FACED "BRINK ROAD <11500" (VAR. X 16") SPAN WIRE MOUNT
---	2 EA	RELOCATE EXISTING SIGN
---	300 LF	PULL BACK AND RE-INSTALL EXISTING CABLE
---	2 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") SPAN WIRE MOUNT
---	2 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") SPAN WIRE MOUNT
---	2 EA	INSTALL CONDUIT BEND IN EXISTING FOUNDATION
---	1 EA	FURNISH AND INSTALL R3-6(R) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-6(L) SIGN (30" X 36") SPAN WIRE MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		
ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

WIRING DIAGRAM



CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. LEE STARKLOFF  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(301) 513-7318

MR. RALEIGH MEDLEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(301) 513-7304

MR. AUGIE REBISH  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(301) 513-7350

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO QOTS FOR APPROVAL PRIOR TO INSTALLATION.


ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	4 CY	TEST PIT EXCAVATION
5004	315 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
5005	100 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8001	2 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER
8003	2 EA	FURNISH AND INSTALL 500 FT. VIDEO CABLE TO CONTROLLER
8008	3 EA	FURNISH AND INSTALL 14 IN. X 32 FT. STRAIN POLE
8010	8 EA	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION
8011	42 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	3 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM FOR SIGNAL POLE

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

**TRAFFIC CONCEPTS, INC.**  
325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION  
MD 27 AND BRINK ROAD

DRAWN BY: M.HOWELL	F.A.P. NO. BW996M82	TS NO. 2200C 01	SHEET NO. 2 OF 2
CHECKED BY: J.ZAYDEL	S.H.A. NO. MONTGOMERY	T.I.M.S. NO. F31J	
SCALE: 1" = 20'	LOG MILE: 15002706.54		
DATE: 10-22-02			